

**IN THE CLAIMS:**

Please AMEND claims 1 and 24-25, as shown below; and

Please CANCEL claims 62-63 without prejudice or disclaimer.

1. (Currently Amended) A system, comprising:  
a port connector; and  
a plurality of modules configured to communicate data between each other ~~for~~  
~~providing data communication between modules connected through a~~ the port connector,  
wherein said modules are configured to communicate a data package comprising  
in a layered structure a physical layer comprising a first and a second segment to  
encapsulate other layers in said data package, a data link layer comprising a first header  
field for data payload type and a second header field for a data link layer version, and a  
network/transport layer comprising a third header field for a transmitting module's  
address, a fourth header field for a length of said data package, a fifth header field for an  
offset value for determination of data payload start in said data package, and comprising  
data payload.

2-23 (Cancelled)

24. (Currently Amended) An apparatus, comprising:  
at least one memory including computer program code,

at least one processor,  
wherein the at least one memory and the computer program code are configured  
to, with the at least one processor, cause the apparatus at least to

~~a receiver configured to receive~~ a data package configured to be communicated  
between modules connected through a port connection,

wherein said data package comprises, in a layered structure, physical layer data comprising a first and a second segment to encapsulate other layers in said data package, data link layer data in a first header field comprising data payload type and in a second header field comprising a data link layer version, and network/transport layer data in a third header field comprising a transmitting module's address, in a fourth header field comprising a length of said data package, in a fifth header field comprising an offset value for determination of data payload start in said data package, and comprising data payload.

25. (Currently Amended) An apparatus, comprising:  
at least one memory including computer program code,  
at least one processor,  
wherein the at least one memory and the computer program code are configured  
to, with the at least one processor, cause the apparatus at least to

~~a transmitter configured to transmit~~ a data package configured to be  
communicated between modules connected through a port connection,

wherein said data package comprises, in a layered structure, physical layer data comprising a first and a second segment to encapsulate other layers in said data package, data link layer data in a first header field comprising data payload type and in a second header field comprising a data link layer version, and network/transport layer data in a third header field comprising a transmitting module's address, in a fourth header field comprising a length of said data package, in a fifth header field comprising an offset value for determination of data payload start in said data package, and comprising data payload.

26. (Previously Presented) A method, comprising:

establishing, by a transmitter, data communication between modules connected through a port connection, wherein said modules each communicate a data package comprising in a layered structure a physical layer comprising a first and a second segment to encapsulate other layers in said data package,

wherein said establishing comprises

providing, in said data package, in a data link layer, a first header field for data payload type and a second header field for a data link layer version,

providing, in said data package, in a network/transport layer, a third header field for a transmitting module's address and a fourth header field for a length of said data package and a fifth header field for an offset value for determination of data payload start in said data package, and

providing, in said data package, a data payload.

27. (Previously Presented) A computer program embodied on computer-readable storage medium and comprising code configured to perform a process when said program is run in a processor, the process comprising:

establishing data communication between modules connected through a port connection, wherein said modules each communicate a data package comprising in a layered structure a physical layer comprising a first and a second segment to encapsulate other layers in said data package,

wherein said establishing comprises

providing, in said data package, in a data link layer, a first header field for data payload type and a second header field for a data link layer version,

providing, in said data package, in a network/transport layer, a third header field for a transmitting module's address, a fourth header field for a length of said data package, and a fifth header field for an offset value for determination of data payload start in said data package, and

providing, in said data package, a data payload.

28. (Previously Presented) The apparatus of claim 24, wherein said data link layer version comprises a major version, which is binary incompatible, and a minor version, which is binary compatible.

29. (Previously Presented) The apparatus of claim 24, wherein said data package further comprises, in said network/transport layer, a sixth header field prior to said data payload start in said data package for buffering.

30. (Previously Presented) The apparatus of claim 24, wherein said data package further comprises a checksum field following the data payload.

31. (Previously Presented) The apparatus of claim 24, wherein said data package further comprises, in said network/transport layer, a seventh header field for a data package number.

32. (Previously Presented) The apparatus of claim 24, wherein said data package further comprises, in said network/transport layer, an eighth header field for a data package fragment sequence number.

33. (Previously Presented) The apparatus of claim 24, wherein said first segment of said physical layer comprises a media field for defining media across which the data package is transferred.

34. (Previously Presented) The apparatus of claim 24, wherein said first segment further comprises a synchronization field for synchronizing the receiving module with the transmitting module.

35. (Previously Presented) The apparatus of claim 24, wherein said second segment of the physical layer comprises an index byte for providing the receiving module with information regarding segmentation or partitioning of data contained in a message.

36. (Previously Presented) The apparatus of claim 24, wherein said second segment further comprises a sequence and acknowledge field for providing a receiving module with information whether said data package is an acknowledgement message or an ordinary message.

37. (Previously Presented) The apparatus of claim 24, wherein said second segment further comprises a sequence and acknowledge field that is configured to inform whether an error was identified in the received data package, when said data package is an acknowledgement message.

38. (Previously Presented) The apparatus of claim 36, wherein said sequence and acknowledgement field is further configured to inform a receiving module that a sequence number in said receiving module should be reset.

39. (Previously Presented) The apparatus of claim 36, wherein said sequence and acknowledgement field is configured to recognize acknowledgement messages and detect missing data packages.

40. (Previously Presented) The apparatus of claim 24, wherein said second segment further comprises a fill field for ensuring that all data packages sent over said port connector contain an even amount of bytes.

41. (Previously Presented) The apparatus of claim 24, wherein said second segment further comprises a parity field for storing parity calculated on the basis of the data package excluding the parity field.

42. (Previously Presented) The apparatus of claim 25, wherein said data link layer version comprises a major version, which is binary incompatible, and a minor version, which is binary compatible.

43. (Previously Presented) The apparatus of claim 25, wherein said data package further comprises, in said network/transport layer, a sixth header field prior to said data payload start in said data package for buffering.

44. (Previously Presented) The apparatus of claim 25, wherein said data package further comprises a checksum field following the data payload.

45. (Previously Presented) The apparatus of claim 25, wherein said data package further comprises, in said network/transport layer, a seventh header field for a data package number.

46. (Previously Presented) The apparatus of claim 25, wherein said data package further comprises, in said network/transport layer, an eighth header field for a data package fragment sequence number.

47. (Previously Presented) The apparatus of claim 25, wherein said first segment of said physical layer comprises a media field for defining media across which the data package is transferred.

48. (Previously Presented) The apparatus of claim 25, wherein said first segment further comprises a synchronization field for synchronizing the receiving module with the transmitting module.



49. (Previously Presented) The apparatus of claim 25, wherein said second segment of the physical layer comprises an index byte for providing the receiving module with information regarding segmentation or partitioning of data contained in a message.

50. (Previously Presented) The apparatus of claim 25, wherein said second segment further comprises a sequence and acknowledge field for providing a receiving module with information whether said data package is an acknowledgement message or an ordinary message.

51. (Previously Presented) The apparatus of claim 25, wherein said second segment further comprises a sequence and acknowledge field that is configured to inform whether an error was identified in the received data package, when said data package is an acknowledgement message.

52. (Previously Presented) The apparatus of claim 50, wherein said sequence and acknowledgement field is further configured to inform a receiving module that a sequence number in said receiving module should be reset.

53. (Previously Presented) The apparatus of claim 50, wherein said sequence and acknowledgement field is configured to recognize acknowledgement messages and detect missing data packages.

54. (Previously Presented) The apparatus of claim 25, wherein said second segment further comprises a fill field for ensuring that all data packages sent over said port connector contain an even amount of bytes.

55. (Previously Presented) The apparatus of claim 25, wherein said second segment further comprises a parity field for storing parity calculated on the basis of the data package excluding the parity field.

56. (Previously Presented) The method of claim 26, wherein said data link layer version comprises a major version, which is binary incompatible, and a minor version, which is binary compatible.

57. (Previously Presented) The method of claim 26, further comprising:  
providing, in said data package, in said network/transport layer, a sixth header field prior to said data payload start in said data package for buffering.

58. (Previously Presented) The method of claim 26, further comprising:  
providing, in the data package, a checksum field following the data payload.

59. (Previously Presented) The method of claim 26, further comprising:

providing, in the data package, in said network/transport layer, a seventh header field for a data package number.

60. (Previously Presented) The method of claim 26, further comprising:  
providing, in the data package, in said network/transport layer, an eighth header field for a data package fragment sequence number.

61. (Previously Presented) The method of claim 26, wherein said first segment of said physical layer comprises a media field for defining media across which the data package is transferred.

62-63 (Cancelled)